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(54) Composite scaffold with post anchor for the repair and regeneration of tissue

(57) A prosthetic implant (10) having a tissue scaffold (20) and a fixation device (30) with a scaffold support (32) and an anchoring post (34). The anchoring post (34) extends from a surface of the scaffold support (32) at a selected angle with the scaffold support embedded within the scaffold (20). The scaffold has a porous ceramic phase (24) and a porous polymer phase (22). The polymer is foamed while in solution that is infused in the

pores of the ceramic to create an interphase junction of interlocked porous materials and embedding the scaffold support portion (32) of the fixation device (30). The preferred method for foaming is by lyophilization. The scaffold may be infused or coated with a variety of bioactive materials to induce ingrowth or to release a medicament. The multilayered porous scaffold can mimic the morphology of an injured tissue junction with a gradient morphology and cell composition.

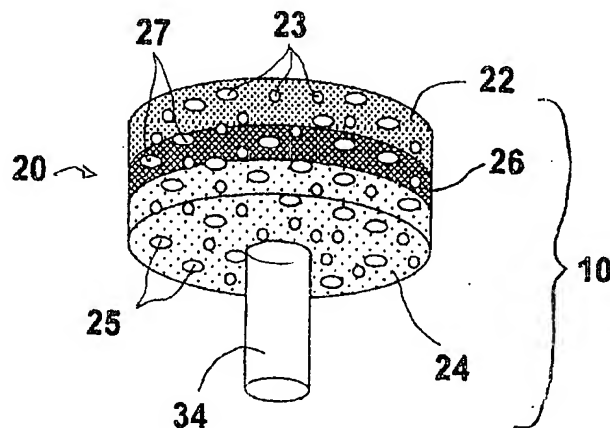


Figure 2

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The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 31 January 2003	Examiner Buchmann, G
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